

MUJI MJ-PSMB50 mobile battery / phone charger disassembly manual

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Device description

The MUJI MJ-PSMB50 is a versatile mobile battery with an integrated rapid charger, designed for convenience and portability. It features a 5,000mAh capacity, allowing for approximately one to one and a half full charges of a standard smartphone.

Key Features:

- **Dual USB Ports:** Equipped with both USB-C and USB-A ports, accommodating a wide range of devices.
- **Rapid Charging Support:**
 - USB-C port supports Power Delivery (PD) at 20W.
 - USB-A port supports Quick Charge (QC) at 18W.
- **Integrated AC Plug:** Features a built-in plug for direct charging from an outlet, eliminating the need for additional cables.
- **Smart IC Technology:** Incorporates smart IC technology to automatically adjust the output based on the connected device, ensuring optimal charging efficiency.

Product Specifications:

- **Dimensions:** Approximately 7.10 cm (width) x 3.32 cm (depth) x 7.83 cm (height).
- **Weight:** Approximately 176 grams.



Figure 1 : top view



Figure 2 : side view



Figure 3 : characteristics view

Disassembly

Disassembling the MUJI MJ-PSMB50 is relatively simple, but the outer casing may suffer slight damage during the process. To reassemble the device permanently, you will need to either glue the parts together or modify the casing to add clamps or screw supports.

Disassembly Instructions:

1. Begin by prying at the point indicated in Figure 4 using a flathead screwdriver.
2. Once the cover starts to lift, insert the second flathead screwdriver without removing the first one. Use it to carefully pry the rest of the cover off. Avoid applying excessive force to prevent breaking the plastic casing.



Figure 4 : prying point



Figure 5 : open battery

After removing the cover, you will find a single PCB that contains both the AC-DC transformer and the power bank circuitry. The battery cell is a 21700 5.0 Ah 3.7V lithium-ion cell from the EVE brand (China). While it functions adequately, its capacity degrades significantly within a year of use. It is recommended to replace it with a higher-quality cell from a reputable brand like Samsung or Panasonic.

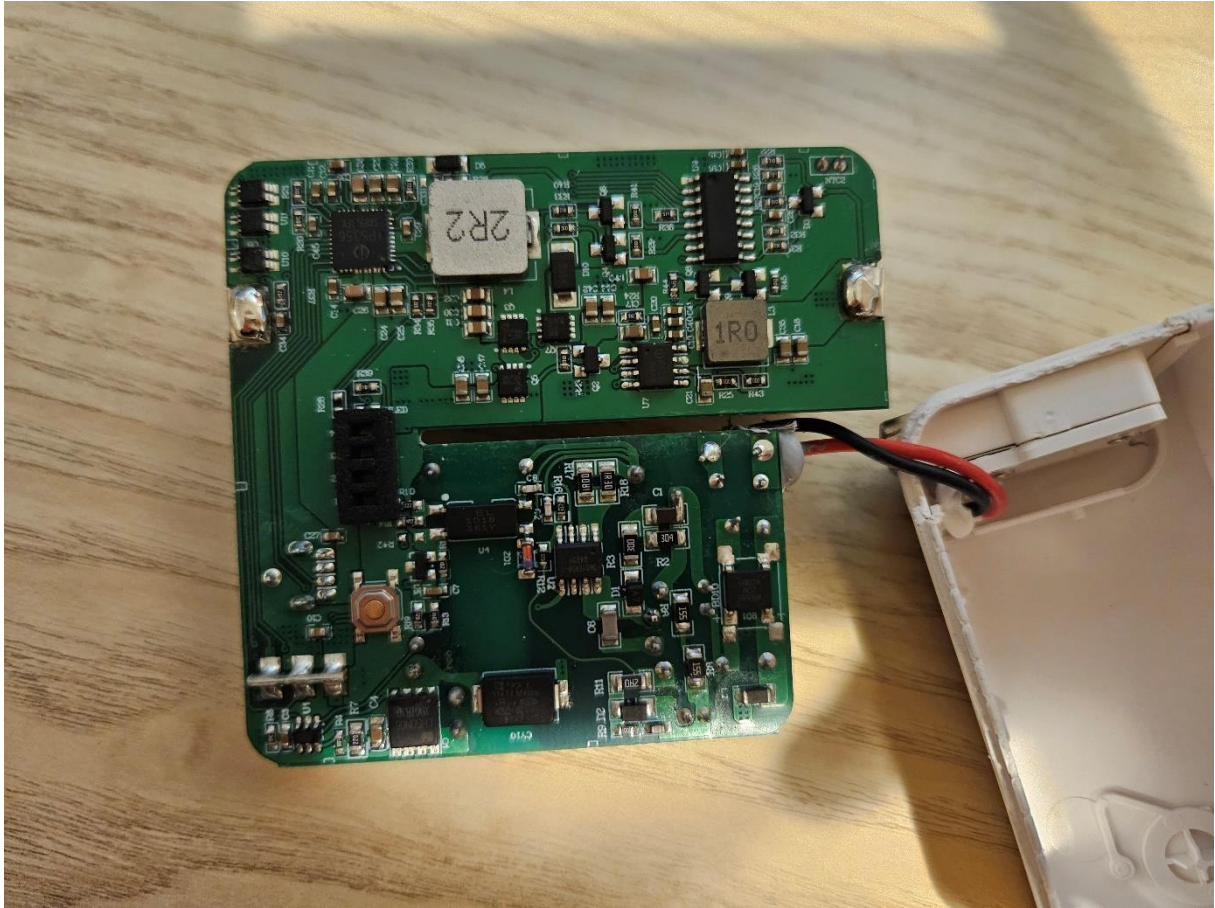


Figure 6 : PCB underside

The underside of the PCB (shown in Figure 6) contains the charging and transformer circuitry.



Figure 7 : Plastic Casing and PCB Assembly